

Agency Use

Permit No.:

MTGO/O/G4

Date Rec'd 9/3/7

Amount Rec'd

Check No.

Rec'd By

WATER PROTECTION BUREAU

FORM
NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A - NMP Sta	atus (Check one):
New New	No prior NMP submitted for this site.
☐ Modification	Change or update to existing NMP.
Permit Number: MT 6	<u>Oldld4</u> (Specify the permit number that was previously assigned to your facility.)
Section B - Facility	or Site Information:
Site NameCon	nsose Colony
	1. 33-30N-/E
Nearest City or Town	Ledge Mt, 59456 County Toole
	nt (Owner/Operator) Information:
Owner or Operator Na	me George J. Waldne for Will R. Kleinsasser
	26 Camrose Lane
City, State, and Zip Co	de <u>Jodgy</u> 7711, 59456
Phone Number (406) 627-2490 ext 614.

RECEIVED

FEB 0 3 2009

DEOWPB PERMITTING & COMPLIANCE DIV.

Se	ction	D	_	N	ИP	Minimum	Elements:
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	· · · · · · · · · · · · · · · · · · ·	
1. Livestock Statistics Odditional Onlines	# Section D 1.1 # of Days on Site (per year)	Page 2.1
		Production (tons,
1.		cu. yds.or gal). ₄
2. " " " 60	345	4 4
2	365	× ×
3. " Heifers 55	345	* *
Dry Course 40	345	**
II " 3 toona 120	365	
6. Calvea 105	.345	**
" Septating Some 310	345	*
doctating sown by		*
Method used for estimating annual manure production		i d
Lessereted using Purdue This wast	Manure Managinest	Planner Crogra
3,800,000 galler total produce from a	d from application of	ron Presione Grans
3500 tens total practice from a	splication from provide	Carry Marie
2. Manure Handling Describe manure handling at the facility:		
Dry Manuel Canied to a	. alate that was	er i militat – tik i s
members the comy trappe	and An the Trace	1 NACS
People Lique marinio	pumped into bold	
A handed & time a year 2	plica & Falls	
Frequency of Manure Removal from confinement area		
Corrala & Fred Lot are Clean	en to 10 way, alon Lo	yerst Bullet
morney, hauled to Du Stark pile	Weekly. Hogs pins	every 2-4W/s
into Stage / Lagoon, Depending on Un	Suns of pit. Dairy Pit 1	George Weakly.
Is this manure temporarily stored in any location other	than the confinement area?	Yes No
is so then now and where? haufted in his	drating tell its hi	an uferron
Co stallation		
In manuscript of the contract	□	
		
roseo on grave, and had	ware person of	of Storage
If so then how and where? haulid to have	No	

Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons, cu.yds. or gal)
9. Hoge Books 20	345	* *
none no none no 100	3 4 5	*
11. " proves 1040	365	*
12. " Pre Grower 1200	365	×
13. " Finisher: 940	345	×
14. Loners 5200	345	K.K.
15. Pullety 4500	300	**
16. Broilen 1200	₹5⊅	* *
17. Duch 500	24	* *
18.		
19.		
20.		
21.		

^{* 3,800,000} galler total products from opplications from providers by course

. Page Rol

(wite Control Structure (name/type)	Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or gallons
1 st Blage Lagon (119.)	128	128	18'	868,159 gal
2nd Stage Lamon Come	348	188	8	3188 346 gal
Dairy Pet.	45	2	Ŋ	27.376 gal
Roa Destatina 5 pita	100	8	2	10.000 gal
" Farracina 9 pite	48	8	2	51840 gal
" nursery 16 pits	50	7	2	84 000 gal
" Fredres 34 pits	40	5	2	102,000 gal
" Quaratire 2"	60	5	4	18,000 gal
Dry Stock Kile	/35	100	8	92,000 cuft.
). <i>©</i>				
2.				

4. Di:	sposal	of	Dead	Anima	als
--------	--------	----	------	-------	-----

Describe how dead animals are disposed of at this facility:

Buried on Like +	Covered With diet	Burned With in hours
of Death Meet	s DEQ Circulo	ir 9 criteria
		Queing of Boats or penale

5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:

Mai	in Dielle naie Si	trion	Working	with	Al I	RCS C	o apreve
18	though	Space	J. •				
Bo	chfillo	o FRO	cised Who	s it	requ	ind,	
. ^				·			
Úil	anima	Evorto.	Taxilly Maps	Map.	for	Incation	no and
exte	ods (R	lan View	Maja.		U		

Describe how animals and wastes are prohibited from direct contact with state waters:
animals are byst in Corralo
Low that are in posture during 5 ummer months.
Sind for Plastic Tand that Filled for Hydrand, Dat War Put How for that specific Perpense.
Was Put there for that specific Persons.
7. Chemicals and Contaminants Describe how chemicals and other contaminants are handled on-site:
Kept in different over to mile it of instrock.
Kept in Sealed Containing, I brought out in small quartities only.
Locked in a building & brought out in small and tilly only.
·
8. Best Management Practice (BMPS) Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. Include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.
Rain Dutter, Fille String Divid Orainoglo, underground
Piping Will be providing Bross strips working with Took County and on this Project, to Justin in press. See Facility NRCS design map Scheduled for 2009.
Toole County Est on this Project, to Justin impresse.
See facility NKCS design map secheduled for 200%.
(Plan View Maji)

Describe in detail all temporary, permanent an	d structural Best l	Management Practices (BMPs) w	hich will be
used to control runoff of pollutants from facilit			
practices. If not already in use, include a sched	_		
details and specifications may be used to suppl		• '	
include but are not limited to: maintaining setb			~ ~
irrigation practices to prevent ponding of waste	-		•
frozen ground; consulting with the Department	t prior to applying	any liquid waste to frozen or sno	ow-covered
ground; applying wastes at agronomic rates.		•	NA
Plant sampling/tissue analysis y	res(no)	Rotational graz	ing yes/no
Conservation or reduced tillage (y	ves/no	Manure injection or incorporat	ion yes/no
Terraces or other water control structures (y	res)no	Contour planting	s yes(no)
Riparian buffers or vegetative filter strips (y	ves/no	Winter "scavenger" or cover crop	ps yes/no
Other examples Warked Will NA Boundaries on wery Field	RCS agent	. I she peroxided we	toach, +
Boundaries on every Field	to keep	manuere From entre	rg carry
Slopes or Ditchey es its	Apt away	Jean Coulses.	See Topon
9. Implementation, Operation, Maintenance	and Record Kee	ping – Guidance	
The permittee is required to develop guidance a maintenance of the facility, and record keeping		* * * *	ion and
Has a guidance document been developed for t	he facility? X	es 🗌 No	
Certify the document addresses the following r	eauirements:		
Implementation of the NMP: Yes	No No		
Facility operation and maintenance: Yes	No		
Record keeping and reporting: Yes	□ No		
Sample collection and analysis: Yes	□No		
Manure transfer: Yes	No No		N. C.
Provide name, date and location of most recent	documentation:		
NRCS CNMP developes updated 11-08. Manure A	Dest Co	plony in Fall	07
updated 11-08. Manure A	nalysis 11	-08, Soil Sample	5 10-08
Located in Plumber shof	·	*	
If your answer to any of the above question is r	no, provide explar	ation	
No manuse is transfered	off the	farm	
***			· · · · · · · · · · · · · · · · · · ·

Section E - Land Application Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility? No If no, then provide an explanation of how animal waste at this site are managed. Yes If yes, then the information requested in Section E must be provided.
Normative Manuse Application Plan All Field treated as demonstrated
Photos and/or Maps Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items: Individual field boundaries for all planned land application areas A name, number, letter or other means of identifying each individual land application field The location of any down-gradient surface waters The location of any down-gradient open tile line intake structures The location of any down-gradient sinkholes The location of any down-gradient agricultural well heads The location of all conduits to surface waters The specific manure/waste handling or nutrient management restrictions associated with each land application field. The soil type(s) present and their locations within the individual land application field(s) The location of buffers and setbacks around state surface waters, well heads, etc.
Land Application Equipment Calibration Describe the type of equipment used to land apply wastes and the calibrating procedures: 7500 Dal Tank. Trush. 7200 Dal Pull Type Hang Tank. Manure Spreades /6 tons Capacity (Rental) Trush mountain Manure Sampling and Analysis Procedures A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining application rates for manure, litter, and process wastewater.
Manure Sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9 Other (describe)
Soil Sampling and Analysis Procedures A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater. Soil sample collection will occur according to the following method: The recommended method(s) found in Section 5 of Department Circular DEQ 9 Other (describe) Other (describe)

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Crops and Manure	ther.
Field Name and spreadable acres for each (for fields w	vith identical crops and soils type):
	· · · · · · · · · · · · · · · · · · ·
Subfield 24 153.7 ac Crop 6	Wheat
Crop 1 (year 1 or ?) plant species	Barley (Fred)
Irrigated (Y/N)	27
Yield Goal (ton/ac or bushel/ac)	50 bu.
N Content of soil as nitrate (lbs/acre or ppm)	33 ym 166 0-29" Fill 1
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	14 PPM
Time of Year When Application will Occur (month)	Sept
Application frequency (per year by month)	I time per year
Form of manure (liquid/solid)	Liquid
Method of Application	anker Spreader
Is manure incorporated or broadcast?	Pasol with incorporates.
Frequency of Application (yearly, biannual, etc.?)	Street of the secretary
Irrigated (Y/N)	Wheat
Irrigated (Y/N)	N
Yield Goal (ton/ac or bushel/ac)	35
N Content of soil as Nitrate (lbs/acre or ppm)	49 les NO3 0-34" Tield 20
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	2) PM
Time of Year When Application will Occur (month)	Seed
Application frequency (per year, by month)	I time Per Year
Form of manure (liquid/solid)	Solid
Method of Application	Monure Typeson
Is manure broadcast, injected or incorporated?	Brook coat in porcoral co
Frequency of Application (Annual, Biannual, ,etc?)	4711 2 Ur.

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

N	Л	ot	h	^	A	T	Te	ed	
11	71	CL	11	63	41		1.5	CU	

Indicate	which metho	d will be	used to	determine	phosphorus	application:
						11

Method A – Representative Soil Sample

Method B – Phosphorus Index

Method A – Representative Soil Sample

- a) Obtain one or more representative soil sample(s) from the field.
- b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).
- c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	
Olsen P Soil Test Result (ppm)	Application Basis
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

Method B - Phosphorus Index

- a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus	
Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	
Site Vuinerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient B	udget Worksheet Field 29	153.7 10 -	When
Site/Field:		eat -55 bulAc	-Same Sov All Sields
	Nutrient Budget	Nitrogen-based Application	Phosphorus-based Application
	Crop Nutrient Needs, lbs/acre included in Department Circular DEQ 9	143 165 Na 3	
(-)	Credits from previous legume crops, lbs/acre (from DEQ-9), as applicable	49 165 0.29"	
(-)	Residuals from past manure production, lbs/acre (lbs/acre applied in previous year(s) x fractions listed in DEQ-9)		
(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre		
(-)	Nutrients supplied in irrigation water, lbs/acre		
	= Additional Nutrients Needed, lbs/acre	94 165 NO3	
	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1,000 gal (from manure test)	20,4 lbs/Ton	· · · · · · · · · · · · · · · · · · ·
(x)	Nutrient Avalability factor (for Nitrogen based application see DEQ-9, below; for Phosphorus based application use 1.0)	20,4 16, Ton	
	= Available Nutrients in Manure, lbs/ton or lbs/1,000 gal	12.2 165/Ton	
	Additional Nutrients needed, lbs/acre (calculated above)	94,65 NO3	
(/)	Available Nutrients in Manure, lbs/ton or lbs/1,000 gal (calculated above)	12,2 165/Ton	
	= Manure Application Rate, tons/acre or 1,000 gal/acre	8 Tons/Acre	
Comments:			
23 m	anure is applied to w	Host or Amel	a - Lieunie
Inceneric	con to applied to as	$-i\sigma$ L' $-i\sigma$	· · · · · · · · · · · · · · · · · · ·
	ranuce is only applied	PPH. no mo	
app.	lied to alternative en	0/200	
_ 5 oli	I Waste Collection	Remark at set	g flore mag production of the

d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

-		Oac - Barley	
Site/Field	Nutrient Budget	Nitrogen-based Application	All Sields Applie Phosphorus-based Application
	Crop Nutrient Needs, lbs/acre included in		Application
	Department Circular DEQ 9	80 ks No 3	
(-)	Credits from previous legume crops,	·	
、	lbs/acre (from DEQ-9), as applicable	33/65	
(-)	Residuals from past manure production,		
	lbs/acre (lbs/acre applied in previous		
	year(s) x fractions listed in DEQ-9)		
(-)	Nutrients supplied by commercial	112 -11 +1	
	fertilizer and Biosolids, lbs/acre	43,5 165 Fest	
(-)	Nutrients supplied in irrigation water,		
	lbs/acre	@ F 11 "11	
· · · · · · · · · · · · · · · · · · ·	= Additional Nutrients Needed, lbs/acre	3,5 Bs N	
	Total Nikasasas J Dl.		
	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1,000 gal (from manure test)	1.7 164 (200 30)	
(x)	Nutrient Avalability factor (for Nitrogen	, , , ,	
(A)	based application see DEQ-9, below; for	1.7 165/1000 (30)	
	Phosphorus based application use 1.0)	,6 DEQ 7	
-	= Available Nutrients in Manure,		
	lbs/ton or lbs/1,000 gal	116/1000	
	Leave the second of the second		
	Additional Nutrients needed, lbs/acre	0711	
	(calculated above)	3,5/65	
(/)	Available Nutrients in Manure, lbs/ton or	1 16/1000ga)	
	lbs/1,000 gal (calculated above)	1 (5/1000ga)	
	= Manure Application Rate, tons/acre	3500 gal/Ac	
<u></u>	or 1,000 gal/acre	3500 gal/AC	
Comment	S:		•
all	nanure is applied to whe	eat on Barley -	Linuid
	₽ R		11
<u>manur</u>	e can be applied to any	fill rase o	n analysis
<u> Bolio</u>	manive is only apple	iso to fields	with
John Mind	Lorus levels below 25,	man Maria	reservation and the second
A:	1 1 Bl 1.	Di i i	1 1 1 1° 1
	ed to alternative crops.	_ diamed was	at calculation
demo	natraled above		
····			

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print	Α.	Name	(Type	or	Print	.)
------------------------	----	------	-------	----	-------	----

	John	J	Waldner
В.	Title (Type	or Pr	int)
	_ '		

Sec + Treasurer

C. Phone No. 1-406-627-2119

E. Date Signed

D. Signature

John J Woldner
Return the Form NMP Nutrient Manager

1-29-09

Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

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FEB 0 3 2003

DEO/WP8 PERMITTING & COMPLIANCE DIV.

INSTRUCTIONS FOR

Form NMP - Nutrient Management Plan Associated With Concentrated Animal Feeding Operations

You may need the following items in order to complete this form: A copy of your most recently submitted Form 2B; a copy of Department Circular DEQ 9, "Montana Technical Standards for Concentrated Animal Feeding Operations;" a copy of soil and manure sample analyses; and a calculator.

Please type or print legibly; forms that are not legible or are not complete will be returned.

SPECIFIC ITEM INSTRUCTIONS

Section A – NMP Status:

Check the box that applies and provide the requested information. If Form NMP has not been previously submitted for this site, check the first box (New). If you submitted a Form NMP and the Department returned it to you as deficient or incomplete, check the second box (Resubmitted); if you were notified by the Department that the permit coverage expired and you are now submitting an updated Form NMP, check the third box (Renewal); if there is a change in the facility or site information (Section H), check the last box (Modification). If a Form NMP has been submitted and returned as incomplete, then the permit number appears in the upper right hand corner of the form. If the site is covered under the *General Permit for Concentrated Animal Feeding Operations*, the number is given on the Authorization letter sent to you by the Department. The permit number must be included on any correspondence with the Department regarding this site.

Section B - Facility or Site Information:

The information must be stated exactly the same way as it was stated on the most recently submitted version of your Form 2B.

Section C - Applicant (Owner/Operator) Information:

The information must be stated exactly the same way as it was stated on the most recently submitted version of your Form 2B.

Section D - Waste Management Minimum Elements:

Livestock Statistics: Identify each type of animal confined at your facility. The definition of "type" could include animals of a given species, animals of a given weight class (e.g. piglets, sows), or animals housed for a specific purpose (e.g. dry cows, milking cows).

"Number of days on site per year" means the number of days at least one animal of a given type is held in confinement during any 12-month period.

"Annual manure production" means the volume of manure (from a given animal type) that is stored, land applied, or transferred to other persons during any given 12-month period. When describing the method used to calculate annual manure production, include all formulas, factors, references to tables, and other resources used to calculate manure production. Be sure to account for soiled bedding materials and manure-contaminated runoff water, also considered manure under state regulations.

Manure Removal from Confinement Area, list each confinement area at your facility. For example, pens, freestall barns, hog barns, poultry barns, yard back, calving pens, etc.

"Temporary manure storage areas" may include, but are not limited to, structures such as underground tanks and underfloor pits.

List <u>all</u> waste control structures. These may include, but are not limited to, manure lagoons, manure ponds, evaporation ponds, wastewater retention ponds, contaminated runoff retention ponds, settling basins, underground storage tanks, underfloor pits, manure solids stacking pads, composting facilities, and drystack facilities. Berms, dikes, concrete curbs, ditches, and waste transfer pipelines are also waste control structures and must be listed, though some of the requested measurements may not apply (e.g. "volume" usually does not apply to a waste transfer pipeline).

Disposal of Dead Animals, please be as specific as possible with the information that you provide. For example, if dead animals are disposed of by burial, the method/practice description should include the fact that they are buried, how quickly after death they are hauled to the burial site, and how quickly they are covered with soil. The method/practice location information should be detailed enough that an inspector could find the site without the need for additional guidance. It may not simply reference a map.

Clean Water Diversion Practices, the practice description does not need to be any more detailed than "berm," "ditch," "grassy swale," etc. The practice location may not simply reference a map.

Prohibiting Animals & Wastes from Contact with State Waters, the practice description does not need to be any more detailed than "fence," "wall," etc. The practice location may not simply reference a map.

Chemicals and Contaminants, list all major chemicals or other contaminants handled on site as part of your CAFO operation. These would include, but are not be limited to, pesticides, herbicides, animal dips, disinfectants, etc. Specify the method of disposal for each chemical/contaminant.

Describe Best Management Practices (BMPs) used to control runoff of pollutants from the production area, and land application area. Please note that "production area" means that part of a CAFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The "animal confinement area" includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milkrooms, milking centers, cowyards, barnyards, medication pens, walkers, animal walkways, and stables. The "manure storage area" includes but is not limited to lagoons, runoff ponds, storage sheds, stockpiles, under house or pit storages, liquid impoundments, static piles, and composting piles. The "raw materials storage area" includes but is not limited to feed silos, silage bunkers, and bedding materials. The "waste containment area" includes but is not limited to settling basins, and areas within berms and diversions which separate uncontaminated storm water. Also included in the definition of production area is any egg washing or egg processing facility, and any area used in the storage, handling, treatment, or disposal of mortalities.

If you transfer all of the wastes your CAFO produces, and do not land apply any of it to ground under your operational control, then you will not have any land application area BMPs to describe.

Section E – Land Application:

If all of the manure produced at your facility will be transferred to other persons for use in areas beyond your operational control, then you do not need to provide the information requested in Section E of this form.

Photos and/or Maps:

Manure/waste handling and nutrient management restrictions that must be on the photo/map include buffers and setbacks around state surface waters, well heads, etc.

Nutrient Management and Waste Utilization via Land Application:

The purpose for having two options is to allow you to make use of the valuable technical assistance provided by the USDA's Natural Resources Conservation Service (NRCS), if you should so desire.

Requirements: Land application equipment calibration is essential to ensuring that nutrients are being applied at agronomic rates. Section 5 of Department Circular DEQ 9 contains sample instructions on how to calibrate some types of land application equipment. The instructions in Section 5 of Department Circular DEQ 9 are purely recommendations, other methods may work just as well. When sending manure or soil samples to a laboratory for analysis, it is your responsibility to make sure that the lab uses the correct sampling procedures. You should never just "assume" that they will. It is also your responsibility to make sure that the results of the analysis are reported using the appropriate units of measurement. Before you take any samples, talk to the lab that you intend to use. Ask them if they have specific instructions on how to obtain and submit samples. If they do, then you must follow their instructions in order to help ensure that the analysis results you get are as accurate as possible.

You will most likely need to make and fill out multiple photocopies of "Table 4 – Crops and Manure" For information on how to fill out specific sections of Table 6 – Phosphorus Index, please refer to Attachment 2 of Department Circular DEQ 9.

"Table 9 – Nutrient Budget Worksheet" must be filled out for each crop grown on each field to which manure or process wastewater will or may be applied, regardless of whether Method A has been used or Method B has been used. When filling out Table 9, be sure and refer to nitrogen in terms of pounds of elemental nitrogen. Phosphorus should be referred to in pounds of P_2O_5 .

Section F – Certification:

If Form NMP is filled out by one person and signed by another, the person signing the document should read it thoroughly. Always retain a copy of each of the documents that you send to the Department.

If you have any questions concerning how to fill out this form, or other forms related to the Montana Pollutant Discharge Elimination System (MPDES) discharge permitting program, please contact the Department's Water Protection Bureau at:

Phone: (406) 444-3080 Fax: (406) 444-1374 1520 East Sixth Avenue P.O. Box 200901 Helena, MT 59620-0901 Appendix A: Phosphorus Index Worksheet (Complete for each field or crop)

Site/Field:								
Sie Category Factor	None (0)	Low (1)	Medium (2)	High (4)	Very High (8)	Risk Value (0, 1, 2, 4, 8)	Weight Factor	Weighted Risk
Soil Erosion	N/A	<5 tons/ac/yr	5-10 ton/ac/yr	10-15 tons/ac/yr	>15 tons/ac/yr		X 1.5	
Furrow Irrigation Erosion	N/A	Tailwater recovery, QS>6 very erodible soils, or QS>10 other soils	QS>10 for erosion resistant soils	QS>10 for erodible soils	QA>6 for very erodible soils		X 1.5	
Sprinkler Irrigation Erosion	All sites 0-3% slope, all sandy sites, or site evaluation indicates little or no runoff, large spray on silts 3-8%	Medium spray on silty soils 3-15% slopes, large spray on silty soils 8-15% slope, low spray on silt soils 3-8%, large spray on clay soil 3-15% slope	Medium spray on clay soils 3- 8% slopes, large spray on clay soils >15% slope, medium spray on silt soil >15% slope	Medium spray on clay soils >8% slope, low spray on clay soil 3-8% slope, low spray on silty soils >15% slopes	Low spray on clay soils >8% slopes		X 0.5	
Runoff Class	Negligible	Very Low or Low	Medium	High	Very High		X 0.5	
Olson Soil Test P		<20 ppm	20-40 ppm	40-80 ppm	>80 ppm		X 1.0	
Commercia l P Fertilizer Application Method	None Applied	Placed with planter or injected deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during the growing season	Incorporated >3 months before crop or surface applied <3 months before crop emerges	Surface applied >3 months before crop emerges		X 1.0	
Commercia l P Fertilizer Application Rate	None Applied	<30 lbs/ac P2O5	31-90 lbs/ac P2O5	91-150 lbs/ac P2O5	>150 lbs/ac P2O5		X 1.0	
Organic P Source Application Method	None Applied	Injected deeper than 2 inches	Incorporated <3 months prior to planting or surface applied during growing season.	Incorporated >3 months before crop or surface applied <3 months before crop.	Surface applied to pasture or >3 months before crop emerges.		X 1.0	
Organic P Application Rate	None Applied	<30 lbs/ac P2O5	31-90 lbs/ac P2O5	91-150 lbs/ac P2O5	>150 lbs/ac P2O5		X 1.0	
Distance to Concentrat ed Surface Water Flow	>1,000 feet	200-1,000 feet, or functioning grass waterways in concentrated surface water	100-200 feet	<100 feet	0 feet or applications are directly into concentrated surface water flow areas.		X 1.0	

Camrose Colony

Volume and Capacity for Primary and Secondary Ag Lagoons

Primary 1st Stage Lagoon

	Width	<u>Length</u>	<u>Slope</u>
Bottom	20	20	3 to 1

	Squar	Square Feet Volume		Top (<u>(feet)</u>			
Height (feet)	Base	Top	Cu. Ft.	<u>Gallons</u>	<u>Width</u>	<u>Length</u>	Cu. Yd	<u>Acres</u>
1	400	676	532	3,979	26	26	20	0.01
2	400	1,024	1,376	10,292	32	32	51	0.03
3	400	1,444	2,604	19,478	38	38	96	0.06
4	400	1,936	4,288	32,074	44	44	159	0.10
5	400	2,500	6,500	48,620	50	50	241	0.15
6	400	3,136	9,312	69,654	56	56	345	0.21
7	400	3,844	12,796	95,714	62	62	474	0.29
8	400	4,624	17,024	127,340	68	68	631	0.39
9	400	5,476	22,068	165,069	74	74	817	0.51
10	400	6,400	28,000	209,440	80	80	1,037	0.64
11	400	7,396	34,892	260,992	86	86	1,292	0.80
12	400	8,464	42,816	320,264	92	92	1,586	0.98
13	400	9,604	51,844	387,793	98	98	1,920	1.19
14	400	10,816	62,048	464,119	104	104	2,298	1.42
15	400	12,100	73,500	549,780	110	110	2,722	1.69
16	400	13,456	86,272	645,315	116	116	3,195	1.98
17	400	14,884	100,436	751,261	122	122	3,720	2.31
18	400	16,384	116,064	868,159	128	128	4,299	2.66
19	400	17,956	133,228	996,545	134	134	4,934	3.06
20	400	19,600	152,000	1,136,960	140	140	5,630	3.49

Secondary 2nd Stage Lagoon

	Width	Length	Slope
Bottom	150	300	3 to 1

	Square I	Square Feet Volume		<u>ıme</u>	<u>Top (feet)</u>			
Height (feet)	<u>Base</u>	Top	Cu. Ft.	<u>Gallons</u>	<u>Width</u>	<u>Length</u>	Cu. Yd	<u>Acres</u>
1	45000	47,736	46,361	346,782	156	306	1,717	1.06
2	45000	50,544	95,490	714,268	162	312	3,537	2.19
3	45000	53,424	147,455	1,102,967	168	318	5,461	3.38
4	45000	56,376	202,325	1,513,392	174	324	7,494	4.64
5	45000	59,400	260,168	1,946,060	180	330	9,636	5.97
6	45000	62,496	321,055	2,401,489	186	336	11,891	7.37
7	45000	65,664	385,053	2,880,198	192	342	14,261	8.84
8	45000	68,904	452,234	3,382,710	198	348	16,749	10.38
9	45000	72,216	522,667	3,909,549	204	354	19,358	12.00
10	45000	75,600	596,422	4,461,238	210	360	22,090	13.69



LABORATORY ANALYTICAL REPORT

Client:

Camrose Colony

Lab ID:

Client Sample ID:

B070100374-002

Report Date:

10/15/07

Dry Stock Manure

Collection Date: Date Received: 10/02/07 10/03/07

Manure Testing - CNMP Manure Package

<u>Analyte</u>	Dry Basis	As I	Received Mois	sture Basis
	<u>mg/kg</u>	<u>Percent</u>	<u>mg/kg</u>	pounds/ton
Moisture Solids	0.0 100.0	41.6 58.4		
Total Kjeldahl Nitrogen	17,400	1.02	10,162	20.3
Nitrate as N	<u>39</u>	<u>0.00</u>	<u>23</u>	<u>0.0</u>
Nitrogen, Total as N	17,439	1.02	10,184	20.4
Phosphorus, Total as P	7,630	0.45	4,456	8.9
Phosphorus, as P ₂ O ₅	17,473	1.02	10,204	20.4
Potassium, Total as K	26,400	1.54	15,418	30.8
Potassium, as K₂O	31,680	1.85	18,501	37.0

NOTES:

To adjust to a different moisture, divide the current value by the percent dry matter (expressed as a decimal), then multiply by the desired percent dry matter (also expressed in a decimal). For example, total nitrogen was 80 pounds per ton at 50% moisture and the usual spreading moisture is 45%, 80 divided by 0.50 = 160 pounds of total nitrogen per dry ton of manure. Then multiply 160×0.55 (% DM) = 88 total pounds of nitrogen per ton at 45% moisture.

For liquid or semi-liquid manure slurry you can calculate pounds per 1000 gallons by multiplying the pounds/ton concentration by 4.

mg/kg = ppm



LABORATORY ANALYTICAL REPORT

Client:

Camrose Colony

Lab ID:

B08110351-001

Client Sample ID:

2nd Stage Ag Lagoon

Report Date:

11/18/08

Collection Date:

11/04/08

Date Received: 11/05/08

Manure Testing - CNMP Manure Package

<u>Analyte</u>	Dry Basis mg/kg	As i <u>Percent</u>	Received Mois mg/kg	eture Basis pounds/ton	
Moisture	0.0	94.0			
Solids	100.0	6.0			
Total Kjeldahl Nitrogen	3,590	0.02	215	0.4	1.7
Nitrate as N	<u>4</u>	<u>0.00</u>	<u>0</u>	<u>0.0</u>	<u>0.0</u>
Nitrogen, Total as N	3,594	0.02	216	0.4	1.7
Phosphorus, Total as P	809	0.00	49	0.1	0.4
Phosphorus, as P ₂ O ₅	1,853	0.01	111	0.2	0.9
Potassium, Total as K	3,340	0.02	200	0.4	1.6
Potassium, as K ₂ O	4,008	0.02	240	0.5	1.9

NOTES:

To adjust to a different moisture, divide the current value by the percent dry matter (expressed as a decimal), then multiply by the desired percent dry matter (also expressed in a decimal). For example, total nitrogen was 80 pounds per ton at 50% moisture and the usual spreading moisture is 45%, 80 divided by 0.50 = 160 pounds of total nitrogen per \underline{dry} ton of manure. Then multiply 160×0.55 (% DM) = 88 total pounds of nitrogen per ton at 45% moisture.

For liquid or semi-liquid manure slurry you can calculate pounds per 1000 gallons by multiplying the pounds/ton concentration by 4.

mg/kg = ppm

LABORATORIES

P.O. BOX 510, NORTHWOOD, ND 58267 (701) 587-6010

SUBMITTED FOR:

CAMROSE COLONY 26 CAMROSE LANE HC74 BOX 18 LEDGER, MT

59456

SOIL TEST REPORT

FIELD TOOLE COUNTY

30N-1E

TWP QTR

SECTION 34 ACRES 181.5

SAMPLE

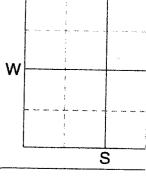
PREV CROP

SUBMITTED BY:

C04716

CAMROSE COLONY 26 CANROSE LANE HC74 BOX 18 LEDGER, MT

59456



N

REF# 10298714

LAB# 149145 BOX#

DATE SAMPLED

10/22/08

DATE RECEIVED

12/10/08

DATE REPORTED

12/11/08

	10/22/00		DATE RECE
NUTRIENT	IN THE SOIL		ETATION
	24 lb/ac 39 lb/ac 63 lb/ac	V LOW LOW I	AED HIGH
Disease Sa	š		
	13 рре	***********	
11.7%	297 pps	******	
	36 lb/ac	111111111111111111111111111111111111111	
	14 lb/ac 144 lb/ac	**************************************	
CAC:			
	0.89 ppm	**********	
rectio Metho	2.0 %		
	0.29 mmho/cm	111111	
ma F-Vi	0.36 mmho/cm 0-0-60 = 4 LBS	*******	
	- 444/4	ALLEGITEL	

E	ST C	ROP CHOICE	2ND C	ROP CHOICE	3RD CI			
				0.10102	JAID C	ior c		
YIE	LD	IING BARLEY	YIELD		VIELD			
GC	AL	45 DII	GOAL	de la companya de la	YIELD GOAL	-		
	DDDAT	CACT (DUTY D	SU(SUES)	ED GUIDELINES	SUGGEST	SUGGESTED GU		
	BROADCAST/BUILD		LE ACOL	APPLICATION		ADDI		
N				520 202 3 (12.00	APPL		
	78		N		N			
P.C	35	Broadcast	P.O.		P.O.			
K,C	10	Band(Starter):	KO		K .0			
CI	4	Broadcast	CI		GI			
S	0		\$		\$			
В			3		8			
Zn			Zń		Zh			
Fe			Fa	`	F			
Mn			Mn		Min			
Cu	0		Cu		Cu	***************************************		
Mg			Mg		Mg.			
Lime	0.0		Lime		Lime			

	Biograph Call	Cation Exchange Capacity		uration (Typ	
7.8					



P.O. BOX 510, NORTHWOOD, ND 58267 (701) 587-6010

Field 24

SUBMITTED FOR:

CAMROSE COLONY 26 CANROSE LANE HC74 BOX 18 LEDGER, MT

59456

SOIL TEST REPORT

1A FIELD TOOLE COUNTY

SAMPLE HENKE

29N 1E TWP QTR

SECTION 4 ACRES 153.2

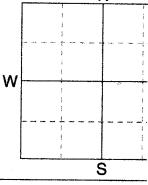
MALTING BARLEY PREV CROP

SUBMITTED BY:

CO4716

CANROSE COLONY 26 CAMROSE LANE HC74 BOX 18 LEDGER, NT

59456



10535446 REF#

44000 BOX# ₹

DATE SAMPLED

8/25/0R

DATE RECEIVED

LAB#

DATE SAMPLED	8/25/08	DATE	RECEIVED	7/ 5/08	DA	ATE REPORTED	9/ 5/08
NUTRIENT	16 lb/ac 33 lb/ac	er (mil.) Till state og state o	HOH	ROP CHOICE Inter Wheat 55 Bu	2ND CRO YIELD GOAL	P CHOICE	3RD CROP C
oreals in	49 lb/ac			DCAST/BUILD			
_	21 ppm		N 83		N		
		taatti taata ka		Band(Starter):	Ros		
	285 pps	111111111111111111111111111111111111111	825 10	Band(Starter)#	KO		
	98 lb/ac	erreterreterrete	23 O	+	C)		
	30 lb/ac 360+ lb/ac		JS 0		9:		
		100			E		
					Zn		
						٠.	
	1.13 ppm	ttittetest ste sses	331 0		i i i		
					Ng		
Self (Graf			dipe 0.0		Lime		
					i Basanza		
	0.40 mmho/cm 1.28 mmho/cm	***************************************	7.6		Section Community of the Community of th	en de la companya de	
Crop Regova	l: Crno 1: P205	= 74 Y20= 21		* CAUTION: SE	ED PLACED FERTI	LIZER CAN CAUS	E INJURY :

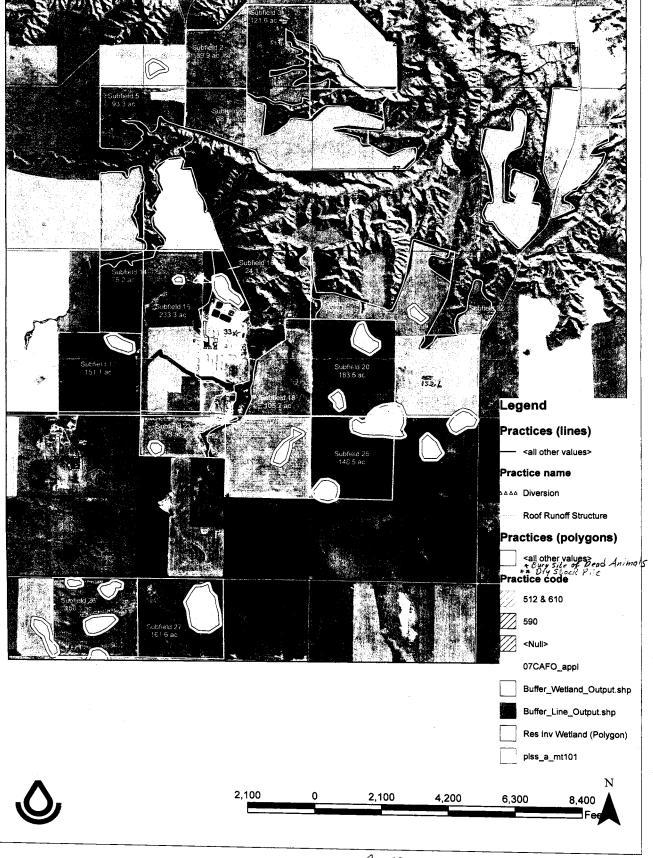
Crop Removal: Crop 1: P205= 34 K20= 21

AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

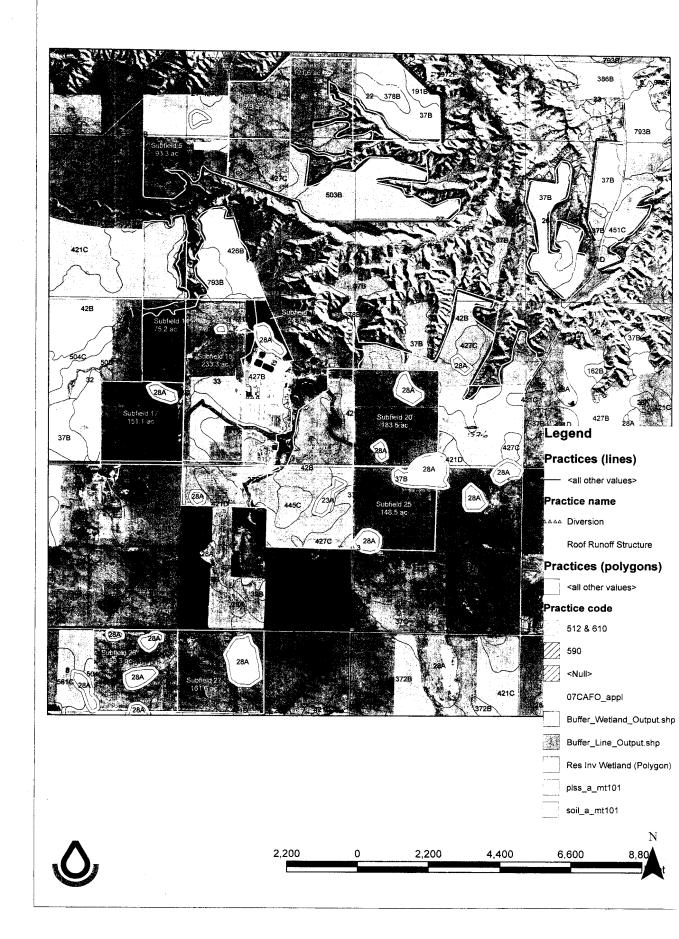


Plan Map

Customer(s): CAMROSE COLONY INC



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